



Sentinel

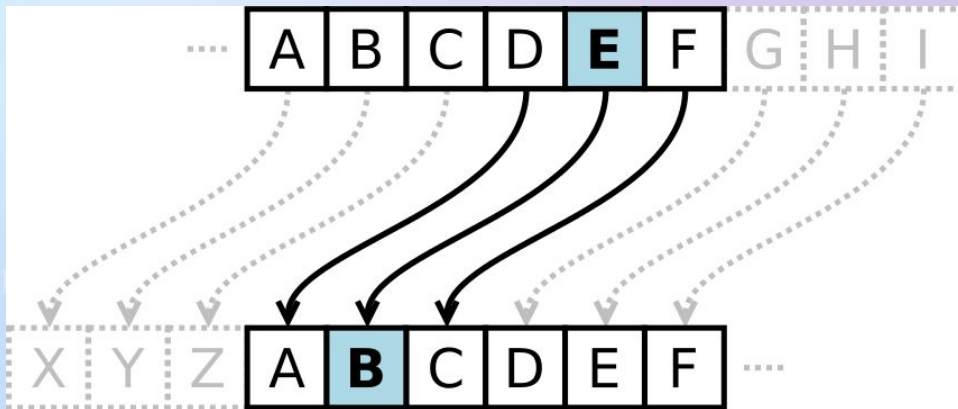
<Delve into Web Dev>

DEFENDING OUR DIGITAL WAY OF LIFE

Recap

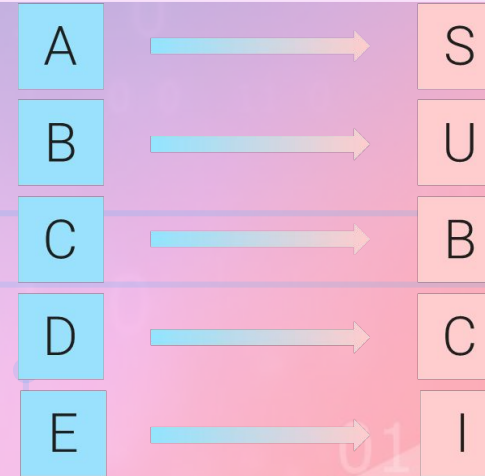
Caesar Cipher

Shift every letter of the alphabet



Mixed Alphabet Cipher

Create a mapping between the letters



Recap

1. Calculate the letter frequencies in the text
2. Compare them to the English text letter frequencies
3. Look for any other patterns (digraphs, words, etc.)
4. Perform substitution until things start to make sense

Most frequent letters are:
E T A O I N S H R D L U

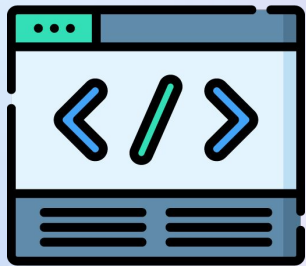
Learning Objectives

- Learn what are `<div>` and `` elements
- Learn what are `<textarea>` elements
- Learn how to create an HTML table using the following tags: `<table>`, `<thead>`, `<tbody>`, `<tr>`, `<th>`, `<td>`

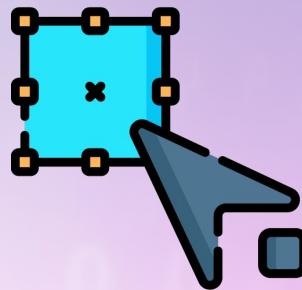
Some more HTML

1. To complete our future challenges, we'll need to learn about a few new HTML elements:

div & span



Textarea

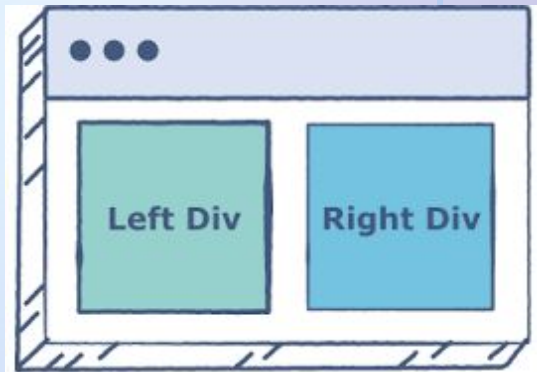


Tables

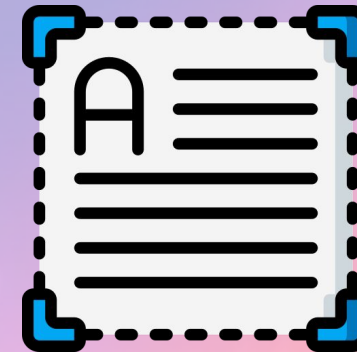


div & span

<div>: a block container element



****: an inline container element



These are used to group elements so we can more easily target them with CSS and JavaScript selectors

div Example

```
<div id="button-group">  
  <button>Like</button>  
  <button>Comment</button>  
  <button>Subscribe</button>  
</div>
```

```
<div id="button-group-2">  
    
</div>
```



span Example

```
<p>  
  Buy today for only <span id="highlight">3 BTC!</span>  
</p>
```

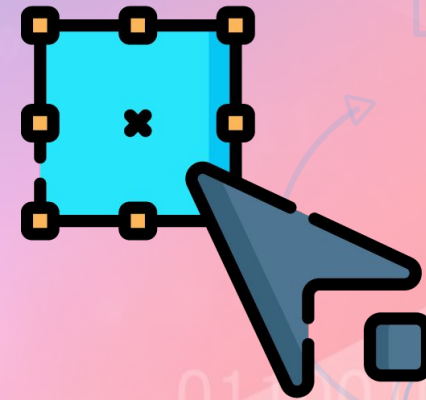

<textarea>

Large block of editable text!

```
<textarea rows="10" cols="100">Initial text</textarea>
```

Can get/set the value in JS using:

`textareaElement.value`



Tables

Some data is best organized in tables

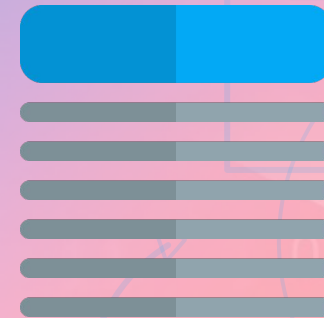
E.g. the mapping we'll be using for cracking the substitution cipher

Character	Frequency	Substitution
A	0.1	Z
B	0.13	E
Z	0.01	Y
...		

Tables - Headers

```
<table>
  <thead>
    <tr>
      <th>First Name</th>
      <th>Last Name</th>
    </tr>
  </thead>
</table>
```

First Name	Last Name



Tables - Data

```
<table>
  <thead>...</thead>
  <tbody>
    <tr>
      <td>Princess</td>
      <td>Carolyn</td>
    </tr>
    <tr>...</tr>
  </tbody>
</table>
```

First Name	Last Name
Princess	Carolyn



Summary

Element	Function
<code><div></code>	Block Container Element
<code></code>	Inline Container Element
<code><textarea></code>	Create text area that can hold unlimited characters
<code><table></code>	Create Table



Questions?

Your Turn!

> Play around, have fun, ask questions!